

Title (en)

SEALING AND RESTRAINT SYSTEM FOR JOINING PLASTIC PIPE SECTIONS HAVING PRE-FORMED SOCKETS

Title (de)

DICHTUNGS- UND RÜCKHALTESYSTEM ZUM VERBINDEN VON KUNSTSTOFFROHRABSCHNITTEN MIT VORGEFORMTEN MUFFEN

Title (fr)

SYSTÈME D'ÉTANCHÉITÉ ET DE RETENUE DESTINÉ AU RACCORDEMENT DE SECTIONS DE TUYAU EN PLASTIQUE DOTÉES D'EXTRÉMITÉS FEMELLES PRÉFORMÉES

Publication

EP 4111083 A4 20240306 (EN)

Application

EP 21761613 A 20210225

Priority

- US 202016801874 A 20200226
- US 2021070195 W 20210225
- US 201962816268 P 20190311

Abstract (en)

[origin: US2020292109A1] A seating and restraint system is shown for joining the spigot and socket ends of two sections of plastic pipe to form a pipe joint. The socket pipe ends are preformed at the factory with an internal raceway which receives both a sealing ring and a companion gripping ring. The sealing ring is an elastomeric member having a periphery with a protruding ear formed at one circumferential location. The companion gripping ring is a hardened member having one opening gap in the circumference thereof. The protruding ear on the sealing ring fits within the opening gap in the gripping ring, engagement of the protruding ear within the opening gap serving to prevent extrusion of the sealing ring within the gap in the gripping ring and also limiting closure of the gripping ring after engagement of the spigot end with the socket pipe end as the pipe joint is assembled.

IPC 8 full level

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CPC (source: EP US)

F16L 21/03 (2013.01 - US); **F16L 37/0845** (2013.01 - EP); **F16L 21/03** (2013.01 - EP)

Citation (search report)

- [A] EP 1828660 B1 20181205 - S & B TECHNICAL PRODUCTS INC [US]
- [A] US 4834398 A 19890530 - GUZOWSKI SAMUEL [CR], et al
- [A] US 5067751 A 19911126 - WALWORTH VAN T [US], et al
- [A] US 9829137 B2 20171128 - KENNEDY JR HAROLD [US]
- See also references of WO 2021174254A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

US 11353148 B2 20220607; **US 2020292109 A1 20200917**; AU 2021228314 A1 20220915; CA 3168660 A1 20210902; CR 20220422 A 20221014; EP 4111083 A1 20230104; EP 4111083 A4 20240306; WO 2021174254 A1 20210902

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